

Application No. 10/727,246

July 20, 2005

Response to Notice of Non-Compliant Amendment of May 12, 2005

**In the Claims:**

**Please amend the claims as indicated below:**

1.(currently amended) A latch assembly control method, comprising the steps of:

integrating a latch assembly with a motor having at least one gear thereof for actuating a plurality of components of said latch assembly; and

associating a geartooth sensor with said latch assembly, wherein said geartooth sensor senses a position of said at least one gear, wherein said at least one gear completes less than one revolution ~~to thereby provide a known reference point registration and calibration of said latch assembly via data collected from said geartooth sensor.~~

2.(previously presented) The method of claim 1 further comprising the step of configuring said geartooth sensor to comprises at least one magnet located proximate to said at least one gear of said motor.

3.(currently amended) The method of claim 1 ~~wherein said latch assembly comprises a vehicle door latch assembly~~further comprising the step of providing the latch assembly in a vehicle door.

4.(previously presented) The method of claim 1 further comprising the step of integrating said geartooth sensor with said latch assembly.

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5.(previously presented) The method of claim 1 further comprising the step of providing a vehicle management module which communicates with said door latch assembly for control of said vehicle door latch assembly, including said motor and said at least one gear thereof.

6.(previously presented) The method of claim 5 further comprising the step of communicating data from said geartooth sensor, wherein said is data indicative of a known reference point associated with said at least one gear for calibration thereof.

7.(currently amended) The method of claim 1 further comprising the step of calibrating via, said vehicle management module, at least one component of said door latch assembly based on data collected from said geartooth sensor.

8.(previously presented) The method of claim 1 further comprising the step of providing a plurality of geartooth sensors for collecting position data associated with said at least one gear.

9.(currently amended) The method of claim 5 further comprising the step of actuating at least one component of said door latch assembly utilizing said vehicle management module based on data collected from said plurality of geartooth sensor.

10.(previously presented) The method of claim 5 further comprising the step of actuating at least one component of said door latch assembly utilizing said

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vehicle management module based on data collected from said at least one  
geartooth sensor.

11.(currently amended) A latch assembly control system, comprising:

a latch assembly integrated with a motor having at least one gear thereof  
for actuating a plurality of components of said latch assembly; and

a geartooth sensor associated with said latch assembly, wherein said  
geartooth sensor senses a position of said at least one gear, wherein said at  
least one gear completes less than one revolution ~~to thereby provide a known~~  
~~reference point registration and calibration of said latch assembly via data~~  
~~collected from said geartooth sensor.~~

12.(previously presented) The system of claim 11 wherein said geartooth sensor  
comprises at least one magnet located proximate to said at least one gear of said  
motor.

13.(previously presented) The system of claim 11 wherein said latch assembly  
comprises a vehicle door latch assembly.

14.(previously presented) The system of claim 11 wherein said geartooth sensor  
is integrated with said latch assembly.

15.(previously presented) The system of claim 11 further comprising a vehicle  
management module which communicates with said door latch assembly for

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control of said vehicle door latch assembly, including said motor and said at least one gear thereof.

16.(previously presented) The system of claim 15 wherein said geartooth sensor communicates data indicative of a known reference point associated with said at least one gear for calibration thereof.

17.(previously presented) The system of claim 15 wherein said vehicle management module calibrates at least one component of said door latch assembly based on data collected from said gartooth sensor.

18.(previously presented) The system of claim 11 further comprising a plurality of gartooth sensors for collecting position data associated with said at least one gear.

19.(previously presented) The system of claim 15 wherein said vehicle management module actuates at least one component of said door latch assembly based on data collected from said plurality of gartooth sensor.

20.(not entered)

21.(previously presented) A latch assembly control system, comprising:

a latch assembly integrated with a motor having at least one gear thereof for actuating a plurality of components of said latch assembly; and

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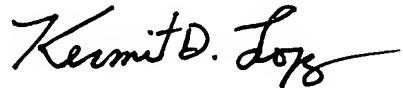
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a geartooth sensor associated with said latch assembly, wherein said geartooth sensor senses a position of said at least one gear, wherein said at least one gear completes less than one revolution to thereby provide a known reference point registration and calibration of said latch assembly via data collected from said geartooth sensor; and

a vehicle management module which communicates with said door latch assembly for control of said vehicle door latch assembly, including said motor and said at least one gear thereof, wherein said vehicle management module actuates at least one component of said door latch assembly based on data collected from said at least one geartooth sensor.

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Respectfully submitted,



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